

PHILIP MORRIS USA
RESEARCH AND DEVELOPMENT DEPARTMENT

HOLLAND TEST #121

MR4-06NK
MR6-06NK
PM6-06NK
MR8-06NK
PM8-06NK

DISTRIBUTION

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DATE: 11

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HOLLAND TFST #121

The following cigarette brands from Holland were received for testing on November 22, 1976. These cigarettes were of October, 1976 production.

Bergen-Op-Zoom

Marlboro Long Size 20's (Box) - Italy

Eindhoven

Marlboro King Size 20's (Soft Pack) - France

Philip Morris King Size 20's (Soft Pack) -

France & Italy

Marlboro 100 20's (Soft Pack) - France & Corsica

Philip Morris Multifilter 100 20's (Soft Pack) - Italy

The Marlboro long size cigarettes were not different from the previous average in any of the characteristics tested.

The Marlboro king size cigarettes were not different from the previous average in any of the characteristics tested.

The Philip Morris king size cigarettes were not different from the previous average in any of the characteristics tested.

This is the first sampling of Marlboro 100's cigarettes received from Eindhoven designated for France and Corsica.

The Philip Morris Multifilter 100 cigarettes were not different from the previous average in any of the characteristics tested.

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HOLLAND TEST #121

ROLL-AND TEST #121

	Marlboro Long Size 20's (Box) Italy			Marlboro King Size 20's (Soft Pack) France			Philip Morris King Size 20's (Soft Pack) France & Italy			Marlboro 100 20's (Soft Pack) France & Corsica		Philip Morris Multifilter 100 20's (Soft Pack) Italy	
	Current	Prev. Avg.	U.S. ²	Current	Prev. Avg.	U.S. ²	Current	Prev. Avg.	Current	U.S. ²	Current	Prev. Avg.	
Smoke													
Butt Length, mm	25	25	26	28	28	28	27	27	33	34	33	33	
FTC tar, mg/cigt.	18.9	19.9	17.5	18.7	18.4	17.9	18.4	17.5	18.5	17.2	17.0	16.8	
TPM, mg/cigt.	23.2	24.4	21.5	22.5	22.5	21.9	22.5	22.4	21.8	20.5	19.4	19.1	
Nicotine, mg/cigt.	1.18	1.22	1.01	1.21	1.17	1.05	1.16	1.13	1.26	1.06	1.03	0.95	
Water, mg/cigt.	3.1	3.3	3.0	2.6	2.9	2.9	2.9	3.8	2.0	2.2	1.4	1.4	
Puffs/cigt.	8.6	8.7	8.0	9.2	9.8	8.6	9.2	9.6	11.1	9.2	10.6	10.5	
Filtration Eff., %	42	43	47	45	47	48	45	47	42	47	50	50	
Cigarette													
Total RTD, in. of H ₂ O	4.1	4.1	4.6	4.6	4.8	4.9	4.7	4.8	4.3	5.0	5.7	5.6	
mm of H ₂ O	104	104	117	117	122	124	119	122	109	127	145	142	
Static Burn. Time, min.	7.6	7.9	7.7	8.3	8.4	7.6	7.7	8.7	7.9	6.8	7.6	7.6	
Length, mm	79.7	79.6	79.6	84.7	84.6	84.5	84.6	84.4	98.6	98.5	98.5	98.7	
Circumference, mm	25.1	25.1	24.9	25.2	25.1	24.9	25.1	25.1	24.7	24.7	24.7	24.7	
Diameter, mm	8.0	8.0	7.9	8.0	8.0	7.9	8.0	8.0	7.9	7.9	7.9	7.9	
Paper													
Porosity, sec.	14	16	22	15	14	21	16	16	15	13	28	28	
Filter													
RTD, in. of H ₂ O	2.6	2.6	2.8	2.8	3.0	2.9	2.9	3.0	2.5	3.0	3.2	3.1	
mm of H ₂ O	66	66	71	71	76	74	74	76	64	76	81	79	
Inner, in. of H ₂ O	-	-	-	-	-	-	-	-	-	-	1.6	1.6	
mm of H ₂ O	-	-	-	-	-	-	-	-	-	-	41	41	
Outer, in. of H ₂ O	-	-	-	-	-	-	-	-	-	-	1.6	1.5	
mm of H ₂ O	-	-	-	-	-	-	-	-	-	-	41	38	
Length, mm	18.0	18.0	19.0	19.9	20.0	21.0	20.1	20.0	25.0	26.9	25.1	25.2	
Inner	-	-	-	-	-	-	-	-	-	-	12.7	12.6	
Outer	-	-	-	-	-	-	-	-	-	-	12.4	12.6	
Weight, g	0.13	0.13	0.14	0.14	0.14	0.15	0.14	0.14	0.17	0.17	0.25	0.25	
Inner	-	-	-	-	-	-	-	-	-	-	0.16	0.16	
Outer	-	-	-	-	-	-	-	-	-	-	0.09	0.09	
Carbon, mg/plug	-	-	-	-	-	-	-	-	-	-	77	72	
Tipping paper length, mm	22	22	23	25	25	25	24	24	30	31	30	30	
Dilution, %	-	-	-	-	-	-	-	-	20	-	-	-	
Filler													
Total alkaloids, %	1.61	1.60	1.50	1.60	1.56	1.49	1.55	1.50	1.56	1.48	1.20	1.09	
Total reducing sugars, %	7.4	7.7	6.7	8.0	7.7	6.7	8.0	8.8 ³	- ⁴	6.6	10.4	10.2 ³	
Wt. of tob.,													
1,000 cigs., g	816	819	730	882	880	770	865	895	976	850	983	977	
1,000 cigs., lbs.	1.7968	1.8084	1.6076	1.9420	1.9383	1.6956	1.9046	1.9673	2.1488	1.8716	2.1642	2.1516	
Rod Density, g/cc	0.264	0.265	0.244	0.269	0.272	0.245	0.268	0.277	0.273	0.243	0.276	0.274	
1C.V., cc/10 g	29	30	35	31	30	36	30	31	32	36	36	35	
C.V., cc/10 g (Corrected to 12% O.V.)	37	37	39	37	37	39	37	38	38	39	37	37	
Oven Volatiles, %	14.6	14.4	13.7	14.2	14.4	13.4	14.2	14.4	13.9	13.7	12.5	12.8	

¹Equilibrated at 75°F and 60% R.H. for 48 hrs.²Data from C.I. No. 11-76.³Results of Test #120, dated November 24, 1976, where a change was noted.

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